NOV 2 2 7006 NOW 2

Attorney Docket No.: Q76616

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- 1. (currently amended): A wiring board obtained by coating a copper paste on a ceramic green sheet and firing it to form a conductor layer and an insulating layer, the copper paste comprising a copper powder, an organic vehicle and at least one selected from the group consisting of:, an SiO₂ particle having an average particle size of 50 nm or less; less, and a ceramic particle having an average particle size of 100 nm or less and non-vitrifiable after sintering selected from the group consisting of Al₂O₃, TiO₂, CeO₂ and mullite.
- 2. (currently amended): A wiring board obtained by coating a copper paste on a ceramic green sheet and firing it to form a conductor layer and an insulating layer, the copper paste comprising a copper powder, an organic vehicle and an SiO₂ particle in an amount of 0.1 to 5 parts by mass per 100 parts by mass of copper powder having an average particle size of 50 nm or less.
 - 3. (canceled).
- 4. (original): The wiring board according to claim 1, wherein the conductor layer has a resistivity of $3x10^{-6} \Omega \cdot \text{cm}$ or less.
- 5. (original): The wiring board according to claim 1, wherein the insulating layer comprises an alkali metal in amount of 0.5 mol% or less in terms of oxide.

AMENDMENT UNDER 37 C.F.R. § 1.111 Attorney Docket No.: Q76616

U.S. Application No. 10/620,346

exposed to an outside of the conductor layer.

6. (currently amended): The wiring board according to claim 1, wherein the conductor layer comprises an inorganic material excluding metal having an average particle size of 2 μm or less, the inorganic material being dispersed within the conductor layer-so as not to be

- 7. (original): The wiring board according to claim 1, wherein a surface of the conductor layer is subjected to a plating treatment.
- 8. (currently amended): A wiring board comprising a conductor layer containing an inorganic material excluding metal dispersed within the conductor layer, wherein in a cross section in a thickness direction of the conductor layer, a total area of the inorganic material having a particle size of 2 μm or more is 5% or less of the sectional area of the conductor layer.
- 9. (currently amended): A wiring board comprising a conductor layer containing an inorganic material excluding metal dispersed within the conductor layer, wherein in a cross section in a thickness direction of the conductor layer, a total area of the inorganic material having a particle size of 3 µm or more is 2% or less of the sectional area of the conductor layer.
- 10. (original): The wiring board according to claim 8, wherein a surface of the conductor layer is subjected to a plating treatment.
 - 11. (canceled).
 - 12. (canceled).
 - 13. (canceled).
 - 14. (canceled).

3

Attorney Docket No.: Q76616

AMENDMENT UNDER 37 C.F.R. § 1.111 U.S. Application No. 10/620,346

by coating a copper paste on a ceramic green sheet and firing it to form a conductor layer and an insulating layer, the copper paste comprising a copper powder, an organic vehicle and at least one selected from the group consisting of: , an SiO₂ particle having an average particle size of 50 nm-or less; less, and a ceramic particle having an average particle size of 100 nm or less and non-vitrifiable after sintering selected from the group consisting of Al₂O₃, TiO₂, CeO₂ and mullite, said method comprising the steps of:

coating the copper paste on a ceramic green sheet;

exposing the coated sheet to a wet nitrogen atmosphere at 650 to 900°C so as to remove organic components; and

firing the sheet at 850 to 1,050°C after the exposing.